

IN THE CLAIMS:

The text of all pending claims is set forth below. The claims have not been amended and are provided for the Examiner's convenience.

1. (PREVIOUSLY PRESENTED) A process executing device in a data interchange system for executing a series of process flows among a plurality of process executing devices, said process executing device comprising:

a process executing data interchanging unit interchanging process executing data for executing a process with another process executing device, and

an interprocess association information interchanging unit interchanging with the other process executing device interprocess association information that associates the process executed by the process executing device with the process executed by the other process executing device based on a correspondence relation between the process executing data and the process executed by the other process executing device.

2. (PREVIOUSLY PRESENTED) The process executing device in the data interchange system according to claim 1, wherein said interprocess association information is information that associates the processes with one another using a part of the process executing data.

3. (PREVIOUSLY PRESENTED) The process executing device in the data interchange system according to claim 1, wherein said interprocess association information is part of the process executing data, and is the information for associating processes with each other using data that takes an exclusive value for each process of the series of process flows.

4. (PREVIOUSLY PRESENTED) The process executing device in the data interchange system according to claim 1, wherein said interprocess association information interchanging unit interchanges the interprocess association information with the other process executing device using a transfer method different from the method used by said process executing data interchanging unit.

5. (PREVIOUSLY PRESENTED) The process executing device in the data interchange system according to claim 1, wherein said interprocess association information interchanging unit interchanges the interprocess association information at a timing that is not synchronized with the timing for interchanging the process executing data by said process executing data interchanging unit.

6. (PREVIOUSLY PRESENTED) The process executing device in the data interchange system according to claim 5, wherein said interprocess association information interchanging unit periodically and collectively interchanges the interprocess association information.

7. (PREVIOUSLY PRESENTED) The process executing device in the data interchange system according to claim 5,

wherein said interprocess association information interchanging unit transmits to the other process executing device inquiry information for inquiring about the process which is executed by the other process executing device and is related with the process executed by the process executing device in addition to the process association information, and

wherein the other process executing device further comprises an inquiry response unit associating the processes executed by both process executing devices and responding to the inquiry information from the process executing device.

8. (PREVIOUSLY PRESENTED) The process executing device in the data interchange system according to claim 5, further comprising:

a process association information request unit requesting said interprocess association information interchanging unit in the other process executing device to transmit the interprocess association information necessary for an inquiry about the process which is executed by the other process executing device and is which related to the process executed by the process executing device in addition to the process association information before the inquiry; and

an inquiry unit for associating the processes executed by both process executing devices using the transmitted process association information and performing the inquiry based on the association result.

9. (PREVIOUSLY PRESENTED) The process executing device in the data interchange system according to claim 1, wherein said interprocess association information interchanging unit dynamically determines the other process executing device to which the interprocess association information is transmitted using a part of the process executing data.

10. (PREVIOUSLY PRESENTED) The process executing device in the data interchange system according to claim 1, further comprising:

an association definition storing unit storing a method to define the interprocess association as an association definition; and

an association unit associating the process executed by the process executing device with the process executed by the other process executing device.

11. (PREVIOUSLY PRESENTED) The process executing device in the data interchange system according to claim 1, further comprising:

a device interprocess association unit associating the processes executed by the process executing device that are identical to the process executed by the other process executing device using the interprocess association information transmitted from the other process executing device.

12. (PREVIOUSLY PRESENTED) A data interchange system for executing a series of process flows among a plurality of process executing devices, comprising:

an interprocess association information storing unit storing an interprocess association information that associates a process executed by each of said plurality of process executing devices with the process executed by the other process executing device based on a correspondence relation between process executing data and the process executed by the other process executing device, which is transmitted by the plurality of process executing devices; and

an interprocess association information distribution unit distributing the interprocess association information stored in said interprocess association information storing unit to the process executing device which is related to the interprocess association information.

13. (PREVIOUSLY PRESENTED) The data interchange system according to claim 12, further comprising an addressee definition storing unit storing a method for determining an addressee of the interprocess association information as an addressee definition, and wherein said interprocess association information distribution unit distributes interprocess association information based on the addressee definition.

14. (PREVIOUSLY PRESENTED) The data interchange system according to claim 12, wherein said interprocess association information distribution unit dynamically determines the addressee of the process association information using a part of a process executing data transmitted from the plurality of process executing devices.

15. (PREVIOUSLY PRESENTED) A data interchange system for executing a series of process flows among a plurality of process executing devices, comprising:

an interprocess association unit associating the processes executed among the plurality of process executing devices based on a correspondence relation between process executing data and a process using the data transmitted from the plurality of process executing devices and generating process association information; and

an interprocess association information distribution unit distributing the process association information generated by said interprocess association unit to the process executing device which is related to the interprocess association information.

16. (PREVIOUSLY PRESENTED) A data interchange device for interchanging data concerning a process included in a series of process flows with an external device, comprising:

an executing data interchanging unit interchanging a process executing data with the external device; and

an interprocess association information interchanging unit interchanging with the external device interprocess association information which associates a process executed by the process executing device with the process executed by the external device based on a correspondence relation between the process executing data and the process executed by the external device.

17. (PREVIOUSLY PRESENTED) A data interchange method for interchanging data concerning a process included in a series of process flows with an external device, comprising:
interchanging process executing data with the external device; and
interchanging with the external device interprocess association information which associates the process executed by the process executing device with the process executed by the external device based on a correspondence relation between the process executing data and the process executed by the external device.

18. (PREVIOUSLY PRESENTED) The data interchange method according to claim 17, wherein in interchanging the interprocess association information, the process executing device uses a data transfer method different from a method for interchanging the process executing data.

19. (PREVIOUSLY PRESENTED) A storage medium which stores a program to make a computer control interchanging data concerning a process included in a series of process flows with an external device, the program making said computer perform the process of:
interchanging process executing data with the external device; and
interchanging with the external device interprocess association information which associates the process executed by the process executing device with the process executed by the external device based on a correspondence relation between the process executing data and the process executed by the external device.

20. (PREVIOUSLY PRESENTED) The storage medium according to claim 19, wherein, in interchanging the interprocess association information, the process executing device uses a data transfer method different from a method for interchanging the process executing data.

21. (PREVIOUSLY PRESENTED) A data interchange device for interchanging data concerning a process included in a series of process flows with an external device, comprising:

executing data interchanging means for interchanging process executing data with the external device; and

interprocess association information interchanging means for interchanging with the external device interprocess association information which associates the process executed by the process executing device with the process executed by the external device based on a correspondence relation between the process executing data and the process executed by the external device.

22. (PREVIOUSLY PRESENTED) A computer data signal embodied in a carrier wave and representing a program that makes a computer control interchanging data concerning a process included in a series of process flows with an external device, the program making the computer execute the process of:

interchanging process executing data with the external device; and

interchanging with the external device interprocess association information which associates the process executed by the process executing device with the process executed by the external device based on a correspondence relation between the process executing data and the process executed by the external device.

23. (PREVIOUSLY PRESENTED) A method for interchanging data between an external device and a processor executing a process in a series of process flows, comprising:

obtaining interprocess association information associating first and second processes respectively executed by the processor and the external device based on a correspondence relation between the second process and process executing data of the first process; and

interchanging the process executing data and the interprocess association information between the processor and the external device.